

Patent Abstracts of Japan

PUBLICATION NUMBER : 05299914
PUBLICATION DATE : 12-11-93

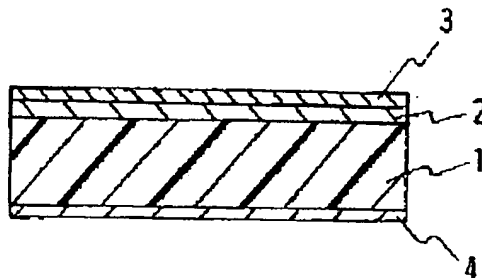
APPLICATION DATE : 21-04-92
APPLICATION NUMBER : 04101440

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : SETSUNE KENTARO; ENOHARA
AKIRA; SAGAWA MORIKAZU;
MAKIMOTO MITSUO;

INT.CL. : H01P 7/08 C01G 1/00 C01G 3/00
H01L 39/22 H01P 1/203 H01P 11/00

TITLE : SUPERCONDUCTING HIGH
FREQUENCY RESONATOR AND
FILTER

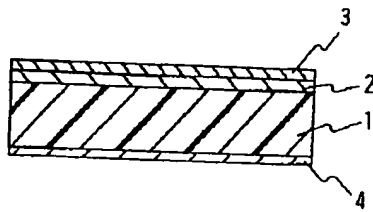


ABSTRACT : PURPOSE: To obtain the small sized resonator by forming a high frequency transmission line employing a copper oxide group material as a superconducting thin film and forming a loop shaped transmission line having an open end.

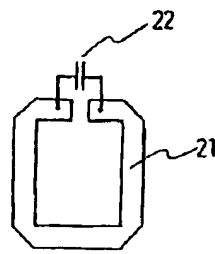
CONSTITUTION: A high frequency transmission line is made of a superconducting thin film and the high frequency transmission line is made of a single line made of a loop strip or a microstrip line. For example, a Bi-Sr-Ca-Cu-O superconducting thin film is formed on an MgO substrate 1 by the sputtering vapor-deposition, the laser abrasion method, the electronic beam vapor-deposition method or the CVD method or the like. After the heat treatment, the metallic thin film 3 is vapor-deposited and a loop strip or microstrip line is formed on the film 3. Then a metallic thin film 4 is vapor-deposited to form a high frequency circuit device.

COPYRIGHT: (C) JPO

【図1】

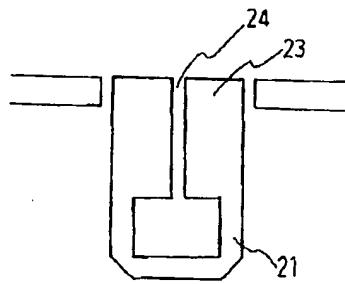
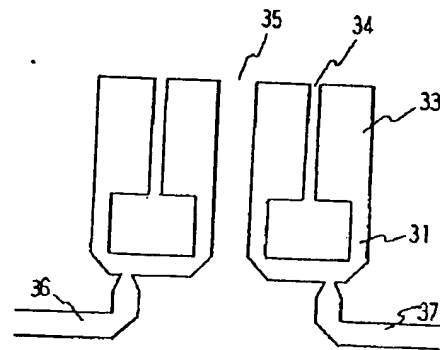


【図2】



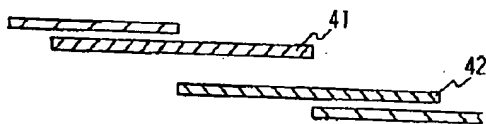
(a)

【図3】



(b)

【図4】



5mm

フロントページの続き

(51) Int. Cl.⁵

H 0 1 P 11/00

識別記号

Z A A G

庁内整理番号

F I

技術表示箇所

(72) 発明者 牧本 三夫

大阪府門真市大字門真1006番地 松下電器
産業株式会社内